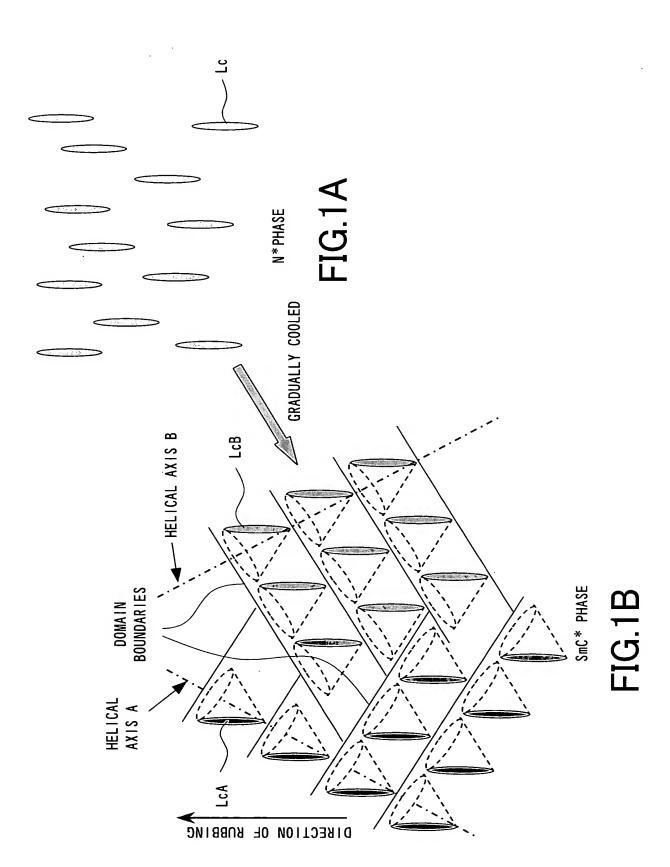
LIQUID CRYSTAL DISPLAY DEVICE... Oct. 3
Shingo Rataoka
Greer, Burns & Crain, Ltd. (Patrick Burns)
Ref. No. 1324.68596
Sheet 1 of 6 (312) 360 0080

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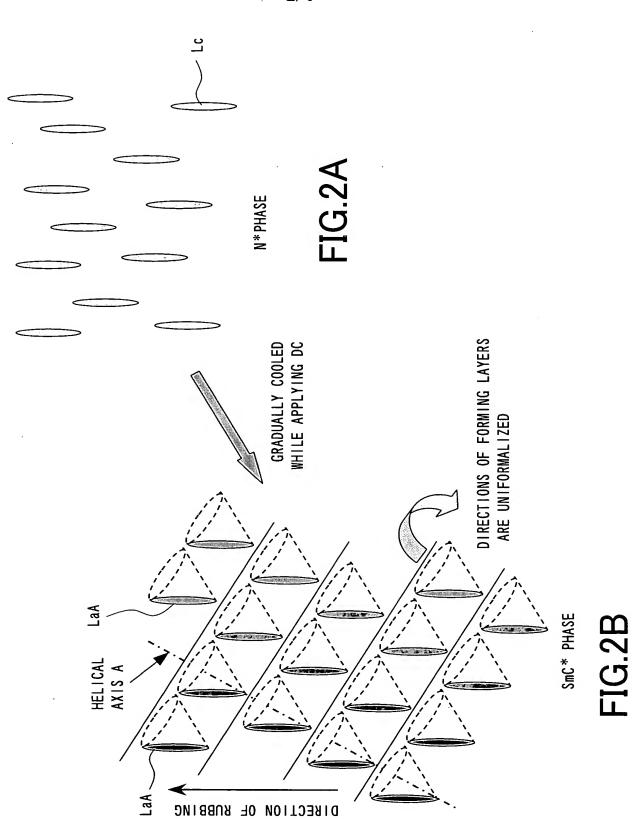
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Shingo Rataoka Greer, Burns & Crain, Ltd. Ref. No. 1324.68596 Sheet 2 of 6

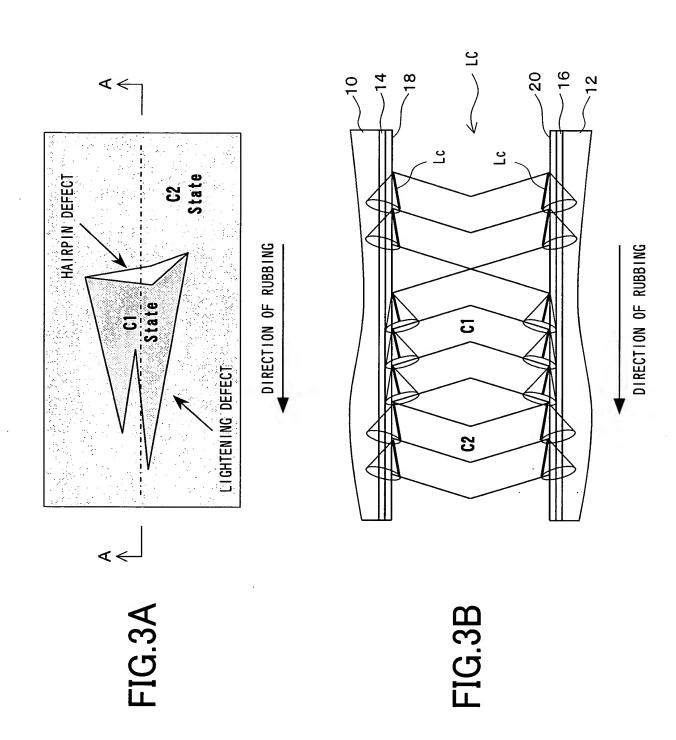
(312) 360 0080

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Ref. No. 1324.68596
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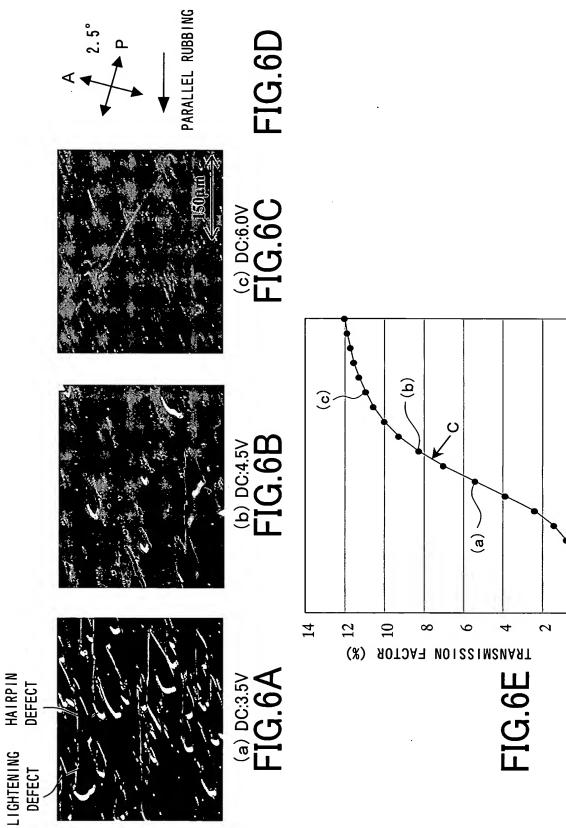
LIGHTENING DEFECT

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Greer, Burns & Crain, Ltd. (Patrick Burns)
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| ALIGNMENT FILM MATERIAL | LQ-T120-04 | 20-04 | RN-1199 | 66 |
|----------------------------------|------------|-------|---------|-------|
| VOLTAGE (V) | 3.5 | 7.0 | 3.5 | 7.0 |
| BLACK TRANSMISSION FACTOR (%) | 0.192 | 0.143 | 0.036 | 0.004 |
| CONTRAST | 53 | 69 | 314 | 2998 |

HAIRPIN DEFECT



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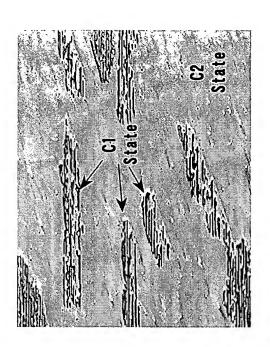


FIG.7B

SAMPLE B (LARGE AMOUNT OF ALKYL SIDE CHAINS)

FIG.7A

SAMPLE A (SMALL AMOUNT OF ALKYL SIDE CHAINS)